

**CITY OF NEWBURYPORT PRETREATMENT COORDINATOR
115 B WATER STREET
NEWBURYPORT, MASS. 01950**

Jerry Cronin
Pretreatment Coordinator

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Date: 2/24/2021

EPA New England
5 Post Office Square
Suite 100
OEP 06-3
Boston, MA 02109-3912

ATTN: Mr. Justin Pimpare

Subject: Annual Pretreatment Report (Jan. 2020 to Dec. 2020)

Dear Mr. Pimpare,

The monthly average flow for the Newburyport Wastewater Treatment Facility for the year of 2020 has been 1.532 MGD. The total Influent Flow for the year has been 559,180,000 gal. The Industrial Flow for the treatment facility has still remained less than 7% of the average daily flow for the year 2020.

There have been no changes made to the Pretreatment Program during the past year. The staff remains at one person. The level of funding of the Pretreatment Program remains the same. Inspections have been conducted of all Categorical Industries, as well as random monthly sampling. All Categorical Industries submit monthly reports, two of which are Self-Monitoring Reports. Total Categorical Industries remains at Six (6).

I certify that the information contained in this Annual Pretreatment report is complete and accurate to the best of my knowledge.

Respectfully,

A handwritten signature in black ink, appearing to read "Jerry Cronin", with the number "2374" written to the right of the signature.

Jerry Cronin, Pretreatment Coordinator

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Fax # (978) 463-3536

Date: 2/24/2021

Director
Wastewater Management Program
Department of Environmental Protection
1 Winter Street, 5th Floor
Boston, MA 02108

ATTN: Sanh Tran

Subject: Annual Pretreatment Report (Jan. 2020 to Dec. 2020)

Dear Sanh Tran,

The monthly average flow for the Newburyport Wastewater Treatment Facility for the year of 2020 has been 1.532 MGD. The total Influent Flow for the year has been 559,180,000 gal. The Industrial Flow for the treatment facility has still remained less than 7% of the average daily flow for the year 2020.

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I certify that the information contained in this Annual Pretreatment report is complete and accurate to the best of my knowledge.

Respectfully,


2374
Jerry Cronin, Pretreatment Coordinator

City of Newburyport
Annual Pretreatment Report
January 2020 to December 2020



ANNUAL REPORT SUMMARY AND LOCAL LIMITS

EPA Region 1 Annual Pretreatment Report Summary Sheet
December
2020

POTW Name:	Newburyport Wastewater Treatment	
NPDES Permit #:	MA0101427	
Pretreatment Report Start Date:	January	2020
Pretreatment Report End Date:	December	2020
# of Significant Industrial Users (SIUs):	6	
# of SIUs Without Control Mechanisms:	0	
# of SIUs not Inspected:	0	
# of SIUs not Sampled:	0	
# of SIUs in Significant Noncompliance (SNC) with Pretreatment Standards:	0	
# of SIUs in SNC with Reporting Requirements:	0	
# of SIUs in SNC with Pretreatment Compliance Schedule:	0	
# of SIUs in SNC Published in Newspaper:	0	
# of SIUs with Compliance Schedules:	0	
# of Violation Notices Issued to SIUs:	0	
# of Administrative Orders Issued to SIUs:	0	
# of Civil Suits Filed Against SIUs:	0	
# of Criminal Suits Filed Against SIUs:	0	
# of Categorical Industrial Users (CIU)s:	6	
# of CIUs in SNC:	0	

Penalties

Total Dollar Amount of Penalties Collected:

of IUs from which Penalties have been collected:

Local Limits

Date of Most Recent Technical Evaluation of Local Limits:

Date of Most Recent Adoption of Technically Based Local Limits:

Pollutant	Limit(mg/L)	MAHL (lb/day)
Arsenic	1.53	
Cyanide (Total)	0.65	
Cadmium	0.055	
Silver	0.5	
Lead	0.6	
Chromium (Trivalent)	3	
Mercury	0.033	
Nickel	0.62	
Zinc	2.02	
Total Suspended Solids	300	
BOD 5	375	
FOG	200	
pH	6.0 min. to 9	

NPDES PERMIT

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act, as amended, (33 U.S.C. §§ 1251 et seq.; the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§ 26-53),

City of Newburyport

is authorized to discharge from the facility located at:

Newburyport Water Pollution Control Facility
157 Water Street
Newburyport, MA 01950

to receiving water named:

Merrimack River (MA 84A-06)

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on the first day of the calendar month immediately following 60 days after signature.

This permit and the authorization to discharge expire at midnight, five (5) years from the effective date.

This permit supersedes the permit issued on May 3, 2004 and the permit modification issued on October 19, 2006.

This permit consists of 15 pages in Part I including effluent limitations, monitoring requirements, 25 pages in Part II including Standards Conditions, and Attachment A - Marine Acute Toxicity Test Procedure and Protocol; Attachment B - Reassessment of Technically Based Industrial Discharge Limits, Attachment C - NPDES Permit Requirement for Industrial Pretreatment Annual Report, and Attachment D - Summary of Required Reports Submittals.

Signed this 15th day of August, 2012



Director
Office of Ecosystem Protection
Environmental Protection Agency
Boston, MA



Director
Massachusetts Wastewater Management Program
Department of Environmental Protection
Commonwealth of Massachusetts
Boston, MA

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge treated effluent from outfall serial number 001 to the Merrimack River. The discharge shall be limited and monitored as specified below.										
EFFLUENT CHARACTERISTIC	EFFLUENT LIMITS						MONITORING REQUIREMENTS			
	Mass Limits			Concentration Limits						
Parameter	Average Monthly	Average Weekly	Maximum Daily	Average Monthly	Average Weekly	Maximum Daily	Measurement Frequency	Sample Type		
Flow	***	***	***	3.4 MGD ²	***	Report MGD	Continuous	Recorder		
Flow	***	***	***	Report MGD	***	***	Continuous	Recorder		
BOD ₅ ¹	851 lbs/day	1276 lbs/day	Report	30 mg/l	45 mg/l	Report mg/l	3/Week	24-Hour Composite ³		
TSS ¹	851 lbs/day	1276 lbs/day	Report	30 mg/l	45 mg/l	Report mg/l	2/Week	24-Hour Composite ³		
pH Range ¹	6.5-8.5 SU (See Permit Page 5 of 14, Paragraph 1.A.1.b.)						5/Week	Grab		
Total Residual Chlorine ^{1,2,9}	***	***	***	0.23 mg/l	***	0.39 mg/l	5/Week	Grab		
Fecal Coliform Bacteria ^{1,2,7,8}	***	***	***	88 CFU/100 ml	***	400 CFU/100 ml	5/Week	Grab		
Enterococci ⁷	***	***	***	35 Colonies /100 ml	***	104 Colonies /100 ml	5/Week	Grab		
Total Ammonia Nitrogen, as N	Report lbs/day	***	***	***	***	Report mg/l	1/Month	24-Hour Composite ³		
Total Kjeldahl Nitrogen	Report lbs/day	***	***	***	***	Report mg/l	1/Month	24-Hour Composite ³		
Total Nitrate/Nitrite	Report lbs/day	***	***	***	***	Report mg/l	1/Month	24-Hour Composite ³		
Whole Effluent Toxicity ^{10,11,12,13}	Acute LC ₅₀ ≥ 100%						4/Year	24-Hour Composite ³		

Sampling Location: Following dechlorination, just prior to discharge in outfall pipe.

Footnotes:

1. Required for State Certification.
2. Report annual average, monthly average, and the maximum daily flow. The limit is an annual average, which shall be reported as a rolling average. The value will be calculated as the arithmetic average of the monthly average flow for the reporting month and the monthly average flows for the previous eleven months.
3. All required effluent samples shall be collected at the point specified on page 2. Any change in sampling location must be reviewed and approved in writing by EPA and MassDEP.

A routine sampling program shall be developed in which samples are taken at the same location, same time and same days of the week each month. Occasional deviations from the routine sampling program are allowed, but the reason for the deviation shall be documented in correspondence appended to the applicable discharge monitoring report.

All samples shall be tested using analytical methods found in 40 CFR § 136, or alternative methods approved by EPA in accordance with the procedures in 40 CFR § 136.

4. Sampling required for influent and effluent.
5. 24-hour composite samples will consist of at least twenty four (24) grab samples taken during one consecutive 24 hour period, either collected at equal intervals and combined proportional to flow or continuously collected proportional to flow.
6. A monthly geometric mean limit of 88 cfu per 100 ml and a maximum daily limit of 400 cfu per 100 ml shall apply. No more than 10% of samples shall exceed 260 cfu per 100 ml. Monitoring of this parameter shall be conducted concurrently with the TRC sampling.
7. Fecal coliform bacteria, enterococci and total residual chlorine limits and monitoring requirements are in effect year round. As enterococci monitoring is a new requirement, the permittee shall monitor only for the first year of the permit without an effluent limit. After one year, the effluent limits for enterococci apply. The average monthly limit for fecal coliform bacteria is expressed as a geometric mean. Samples for fecal coliform bacteria and enterococci shall be taken at the same time as a total residual chlorine sample. Sampling is required five days per week.
8. The minimum level (ML) for total residual chlorine is defined as 20 ug/l. This value is the minimum detection level for chlorine using EPA approved methods found in the most currently approved version of Standard Methods for the Examination of Water and Wastewater, Method 4500 CL-E and G. One of these methods must be used to determine total residual chlorine. For effluent limitations less than 20 ug/l, compliance/non-compliance will be determined based on the ML. Sample results of 20 ug/l or less shall be reported as zero on the discharge monitoring report.

Chlorination and dechlorination systems include an alarm system for indicating system interruptions or malfunctions. Any interruption or malfunction of the chlorine system that may have resulted in levels of chlorine that were inadequate for achieving effective disinfection, or interruptions or malfunctions of the dechlorination system that may have resulted in excessive levels of chlorine in the final effluent shall be reported with the monthly DMRs. The report shall include the date and

time of the interruption or malfunction, the nature of the problem, and the estimated amount of time that the reduced levels of chlorine or dechlorination chemicals occurred.

The alarm system shall specifically include a low TRC level alarm on the pre-dechlorination TRC analyzer. The alarm shall be set at a level that ensures an adequate kill of fecal coliform bacteria. The alarm shall be connected to the WPCF alarm pager system. Once notified of low TRC levels, the WPCF staff shall visit the plant to investigate the cause of the alarm and immediately sample the effluent for TRC and fecal coliform bacteria. All alarms must be recorded in the operator's log book including the time of alarm, time of system investigation, duration and magnitude of the event, the cause for the alarm and how the event was resolved.

The permittee must also notify the Massachusetts Division of Marine Fisheries (*Marine Fisheries*) within 4 hours (See Section D for the description of the related immediate warning system developed with *Marine Fisheries*.)

9. For every day that more than two samples are analyzed, the monthly DMR shall include an attachment documenting the individual grab sample results for that day, the date and time of each sample, the analytical method, and a summary of any operational modifications implemented in response to the sample results. This requirement applies to all samples taken, including screening level and process control samples. All test results utilizing an EPA approved analytical method shall be used in the calculation and reporting of the monthly average and maximum daily data submitted on the DMR (see Part II, Section D.1.d(2)).
10. The permittee shall conduct acute toxicity tests four (4) times per year using Mysid Shrimp and Inland Silverside. Toxicity test samples shall be collected during the months of January, April, July and October. The test results shall be submitted by the last day of the month following the completion of the test. The results are due by February 28, May 31, August 31 and November 30, respectively. The tests must be performed in accordance with test procedures and protocols specified in Attachment A of this permit.

Test Dates	Submit Results by:	Test Species	Acute Limit LC ₅₀
January April July October	February 28 th , March 31 st , August 31 st , November 30 th	Mysid Shrimp Inland Silverside	≥100%

After submitting one year and a minimum of four consecutive sets of WET test results, all of which demonstrate compliance with the WET permit limits, the permittee may request a reduction in the frequency of required WET testing. The permittee is required to continue testing at the frequency required in the permit until notice is received by certified mail from the EPA that the WET testing requirement has been changed.

11. The LC₅₀ is the concentration of effluent which causes mortality to 50% of the test organisms. Therefore, a 100% limit means that a sample of 100% effluent (no dilution) shall cause no more than a 50% mortality rate.
12. If toxicity test(s) using receiving water as diluent show the receiving water to be toxic or unreliable, the permittee shall either follow procedures outlined in Attachment A (*Marine Acute Toxicity*)

Test Procedure and Protocol) Section IV., DILUTION WATER in order to obtain an individual approval for use of an alternate dilution water, or the permittee shall follow the Self-Implementing Alternative Dilution Water Guidance which may be used to obtain automatic approval of an alternate dilution water, including the appropriate species for use with that water. This guidance is found in Attachment G of *NPDES Program Instructions for the Discharge Monitoring Report Forms (DMRs)*, which may be found on the EPA Region I web site at <http://www.epa.gov/Region1/enforcementandassistance/dmr.html>. If this guidance is revoked, the permittee shall revert to obtaining individual approval as outlines in Attachment A. Any modification or revocation to this guidance will be transmitted to the permittees. However, at any time, the permittee may choose to contact EPA-New England directly using the approach in Attachment A.

13. The permit shall be modified, or alternatively revoked and reissued, to incorporate additional toxicity testing requirements, including chemical specific limits, if the results of the toxicity tests indicate the discharge causes an exceedance of any State Water Quality Criterion. Results from these tests are considered "new information" and the permit may be modified pursuant to 40 CFR 122.6(a)(2).

Part I.A.I. (Continued)

- a. The discharge shall not cause a violation of the water quality standards of the receiving waters.
 - b. The pH of the effluent shall not be less than 6.5 nor greater than 8.5 and not more than 0.2 standard units outside of the natural background range.
 - c. The discharge shall not cause objectionable discoloration of the receiving waters.
 - d. The effluent shall contain neither a visible oil sheen, foam, nor floating solids at any time.
 - e. The permittee's treatment facility shall maintain a minimum of 85 percent removal of both biochemical oxygen demand (BOD₅) and total suspended solids (TSS). The percent removal shall be based on monthly average values.
 - f. The permittee shall minimize the use of chlorine while maintaining adequate bacterial control.
 - g. The results of sampling for any parameter done in accordance with EPA approved methods above its required frequency must also be reported.
 - h. If the average annual flow in any calendar year exceeds 90% of the facility's design flow (3.06 MGD), the permittee shall submit a report to MassDEP by March 31 of the following calendar year describing its plans for further flow increases and describing how it will maintain compliance with the flow limit and all other effluent limitations and conditions.
2. All POTWs must provide adequate notice to the Director of the following:
- a. Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to section 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

c. For purposes of this paragraph, adequate notice shall include information on:

- (1) The quantity and quality of effluent introduced into the POTW; and
- (2) Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

3. Prohibitions Concerning Interference and Pass Through:

- a. Pollutants introduced into a POTW by a non-domestic source (user) shall not pass through the POTW or interfere with the operation or performance of the works.

4. Toxics Control

- a. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.
- b. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.

5. Numerical Effluent Limitations for Toxicants

EPA or MassDEP may use the results of the toxicity tests and chemical analyses conducted pursuant to this permit, as well as national water quality criteria developed pursuant to Section 304(a)(1) of the Clean Water Act (CWA), state water quality criteria, and any other appropriate information or data, to develop numerical effluent limitations for any pollutants, including but not limited to those pollutants listed in Appendix D of 40 CFR Part 122.

B. UNAUTHORIZED DISCHARGES

The Permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from the outfall listed in Part LA.1 of this permit. Discharges of wastewater from any other point sources, including sanitary sewer overflows (SSOs) are not authorized by this permit and shall be reported to EPA and MassDEP in accordance with Section D.1.e.(1) of the General Requirements of this permit (Twenty-four hour reporting).

Notification of SSOs to MassDEP shall be made on its SSO Reporting Form (which includes DEP Regional Office telephone numbers). The reporting form and instruction for its completion may be found on-line at <http://www.mass.gov/dep/water/approvals/surffins.htm#sso>.

C. OPERATION AND MAINTENANCE OF THE SEWER SYSTEM

Operation and maintenance of the sewer system shall be in compliance with the General Requirements of Part II and the following terms and conditions. The permittee is required to complete the following activities for the collection system which it owns:

1. Maintenance Staff

The permittee shall provide an adequate staff to carry out the operation, maintenance, repair, and testing functions required to ensure compliance with the terms and conditions of this permit. Provisions to meet this requirement shall be described in the Collection System O & M Plan required pursuant to Section C.5. below.

2. Preventive Maintenance Program

The permittee shall maintain an ongoing preventive maintenance program to prevent overflows and bypasses caused by malfunctions or failures of the sewer system infrastructure. The program shall include an inspection program designed to identify all potential and actual unauthorized discharges. Plans and programs to meet this requirement shall be described in the Collection System O & M Plan required pursuant to Section C.5. below.

3. Infiltration/Inflow

The permittee shall control infiltration and inflow (I/I) into the sewer system as necessary to prevent high flow related unauthorized discharges from their collection systems and high flow related violations of the wastewater treatment plant's effluent limitations. Plans and programs to control I/I shall be described in the Collection System O & M Plan required pursuant to Section C.5. below.

4. Collection System Mapping

Within 30 months of the effective date of this permit, the permittee shall prepare a map of the sewer collection system it owns (see page 1 of this permit for the effective date). The map shall be on a street map of the community, with sufficient detail and at a scale to allow easy interpretation. The collection system information shown on the map shall be based on current conditions and shall be kept up to date and available for review by federal, state, or local agencies. Such map(s) shall include, but not be limited to the following:

- a. All sanitary sewer lines and related manholes;
- b. All combined sewer lines, related manholes, and catch basins;
- c. All combined sewer regulators and any known or suspected connections between the sanitary sewer and storm drain systems (e.g. combination manholes);
- d. All outfalls, including the treatment plant outfall(s), CSOs, and any known or suspected SSOs, including stormwater outfalls that are connected to combination manholes;
- e. All pump stations and force mains;
- f. The wastewater treatment facility(ies);
- g. All surface waters (labeled);
- h. Other major appurtenances such as inverted siphons and air release valves;
- i. A numbering system which uniquely identifies manholes, catch basins, overflow points, regulators and outfalls;
- j. The scale and a north arrow; and
- k. The pipe diameter, date of installation, type of material, distance between manholes, and the direction of flow.

5. Collection System Operation and Maintenance Plan

The permittee shall develop and implement a Collection System Operation and Maintenance Plan.

- a. Within twelve (12) months of the effective date of the permit, the permittee shall submit to EPA and MassDEP
- (1) A description of the collection system management goals, staffing, information management, and legal authorities;
 - (2) A description of the collection system and the overall condition of the collection system including a list of all pump stations and a description of recent studies and construction activities; and
 - (3) A schedule for the development and implementation of the full Collection System O & M Plan including the elements in paragraphs b.1. through b.8. below.
- b. The full Collection System O & M Plan shall be completed, implemented and submitted to EPA and MassDEP within thirty-six (36) months from the effective date of this permit. The Plan shall include:
- (1) The required submittal from paragraph 5.a. above, updated to reflect current information;
 - (2) A preventive maintenance and monitoring program for the collection system;
 - (3) Description of sufficient staffing necessary to properly operate and maintain the sanitary sewer collection system and how the operation and maintenance program is staffed;
 - (4) Description of funding, the source(s) of funding and provisions for funding sufficient for implementing the plan;
 - (5) Identification of known and suspected overflows and back-ups, including manholes. A description of the cause of the identified overflows and back-ups, corrective actions taken, and a plan for addressing the overflows and back-ups consistent with the requirements of this permit;
 - (6) A description of the permittee's programs for preventing I/I related effluent violations and all unauthorized discharges of wastewater, including overflows and by-passes and the ongoing program to identify and remove sources of I/I. The program shall include an inflow identification and control program that focuses on the disconnection and redirection of illegal sump pumps and roof down spouts; and
 - (7) An educational public outreach program for all aspects of I/I control, particularly private inflow.
 - (8) An Overflow Emergency Response Plan to protect public health from overflows and unanticipated bypasses or upsets that exceed any effluent limitation in the permit.

6. Annual Reporting Requirement

The permittee shall submit a summary report of activities related to the implementation of its Collection System O & M Plan during the previous calendar year. The report shall be submitted to EPA and MassDEP annually by March 31. The summary report shall, at a minimum, include:

- a. A description of the staffing levels maintained during the year;

- b. A map and a description of inspection and maintenance activities conducted and corrective actions taken during the previous year;
- c. Expenditures for any collection system maintenance activities and corrective actions taken during the previous year;
- d. A map with areas identified for investigation/action in the coming year;
- e. If treatment plant flow has reached 90% of its design flow [3.06 mgd] based on the annual average flow during the reporting year, or there have been capacity related overflows, submit a calculation of the maximum daily, weekly, and monthly infiltration and the maximum daily, weekly, and monthly inflow for the reporting year; and
- f. A summary of unauthorized discharges during the past year and their causes and a report of any corrective actions taken as a result of the unauthorized discharges reported pursuant to the Unauthorized Discharges section of this permit.

7. Alternate Power Source

In order to maintain compliance with the terms and conditions of this permit, the permittee shall provide an alternative power source(s) sufficient to operate the portion of the publicly owned treatment works¹ it owns and operates.

D. IMMEDIATE WARNING SYSTEM

Within twelve (12) months of the effective date of the permit issuance, the permittee shall submit a report to EPA and MassDEP detailing any updates to the design and operation of an immediate warning system developed with input from *Marine Fisheries*.

At a minimum the immediate warning system shall incorporate all of the total residual chlorine monitoring and alarms systems required in footnote 8, and shall include procedures for immediate (within 4 hours) notification of *Marine Fisheries* if a low TRC alarm occurs. The City shall continue to work cooperatively with *Marine Fisheries* to develop and implement the system.

E. INDUSTRIAL USERS AND PRETREATMENT PROGRAM

- 1. The permittee shall develop and enforce specific effluent limits (local limits) for Industrial User(s), and all other users, as appropriate, which together with appropriate changes in the POTW Treatment Plant's Facilities or operation, are necessary to ensure continued compliance with the POTW's NPDES permit or sludge use or disposal practices. Specific local limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an opportunity to respond. Within 120 days of the effective date of this permit, the permittee shall prepare and submit a written technical evaluation to the EPA analyzing the need to revise local limits. As part of this evaluation, the permittee shall assess how the POTW performs with respect to influent and effluent of pollutants, water quality concerns, sludge quality, sludge processing concerns/inhibition, biomonitoring results, activated sludge inhibition, worker health and safety and collection system concerns. In preparing this evaluation, the permittee shall complete and submit the attached form (Attachment B) with the technical evaluation to assist in determining whether existing local limits need to be revised. Justifications and conclusions should be based on actual plant data if available and should be included in the report. Should the

¹ As defined at 40 CFR §122.2, which references the definition at 40 CFR §403.3

evaluation reveal the need to revise local limits, the permittee shall complete the revisions within 120 days of notification by EPA and submit the revisions to EPA for approval. The Permittee shall carry out the local limits revisions in accordance with EPA's Local Limit Development Guidance (July 2004).

2. The permittee shall implement the Industrial Pretreatment Program in accordance with the legal authorities, policies, procedures, and financial provisions described in the permittee's approved Pretreatment Program, and the General Pretreatment Regulations, 40 CFR 403. At a minimum, the permittee must perform the following duties to properly implement the Industrial Pretreatment Program (IPP):
 - a. Carry out inspection, surveillance, and monitoring procedures which will determine independent of information supplied by the industrial user, whether the industrial user is in compliance with the Pretreatment Standards. At a minimum, all significant industrial users shall be sampled and inspected at the frequency established in the approved IPP but in no case less than once per year and maintain adequate records.
 - b. Issue or renew all necessary industrial user control mechanisms within 90 days of their expiration date or within 180 days after the industry has been determined to be a significant industrial user.
 - c. Obtain appropriate remedies for noncompliance by any industrial user with any pretreatment standard and/or requirement.
 - d. Maintain an adequate revenue structure for continued implementation of the Pretreatment Program.
3. The permittee shall provide the EPA and MassDEP with an annual report describing the permittee's pretreatment program activities for the twelve (12) month period ending 60 days prior to the due date in accordance with 403.12(i). The annual report shall be consistent with the format described in Attachment C of this permit and shall be submitted no later than March 1 of each year.
4. The permittee must obtain approval from EPA prior to making any significant changes to the industrial pretreatment program in accordance with 40 CFR 403.18(c).
5. The permittee must assure that applicable National Categorical Pretreatment Standards are met by all categorical industrial users of the POTW. These standards are published in the Federal Regulations at 40 CFR 405 et. seq.
6. The permittee must modify its pretreatment program, if necessary, to conform to all changes in the Federal Regulations that pertain to the implementation and enforcement of the industrial pretreatment program. The permittee must provide EPA, in writing, within 180 days of this permit's effective date proposed changes, if applicable, to the permittee's pretreatment program deemed necessary to assure conformity with current Federal Regulations. At a minimum, the permittee must address in its written submission the following areas: (1) Enforcement response plan; (2) revised sewer use ordinances; and (3) slug control evaluations. The permittee will implement these proposed changes pending EPA Region I's approval under 40 CFR 403.18. This submission is separate and distinct from any local limits analysis submission described in Part I.E.1.

F. SLUDGE CONDITIONS

1. The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practice, including EPA regulations promulgated at 40 CFR Part 503, which prescribe "Standards for the Use and Disposal of Sewage Sludge" pursuant to Section 405(d) of the CWA, 33 U.S.C. § 1345(d).
2. If both state and federal requirements apply to the permittee's sludge use and/or disposal practices, the permittee shall comply with the more stringent of the applicable requirements.
3. The requirements and technical standards of 40 CFR Part 503 apply to the following sludge use and disposal practices.
 - a. Land application - the use of sewage sludge to condition or fertilize the soil
 - b. Surface disposal - the placement of sewage sludge in a sludge only landfill
 - c. Sewage sludge incineration in a sludge only incinerator
4. The requirements of 40 CFR Part 503 conditions do not apply to facilities which place sludge within a municipal solid waste landfill. These requirements also do not apply to facilities which do not dispose of sewage sludge during the life of the permit but rather treat the sludge (e.g. lagoons, reed beds), or are otherwise excluded under 40 CFR §503.6.
5. The 40 CFR Part 503 requirements include the following elements:
 - General requirements
 - Pollutant limitations
 - Operational Standards (pathogen reduction requirements and vector attraction reduction requirements)
 - Management practices
 - Record keeping
 - Monitoring
 - Reporting

Which of the 40 CFR Part 503 requirements apply to the permittee will depend upon the use or disposal practice followed and upon the quality of material produced by a facility. The EPA Region 1 Guidance document, "EPA Region 1 - NPDES Permit Sludge Compliance Guidance" (November 4, 1999), may be used by the permittee to assist it in determining the applicable requirements.²

6. The sludge shall be monitored for pollutant concentrations (all Part 503 methods) and pathogen vector attraction reduction (land application and surface disposal) at the following frequency. This frequency is based upon the volume of sewage sludge generated at the facility in dry metric tons per year.

² This guidance document is available upon request from EPA Region 1 and may also be found at:
<http://www.epa.gov/region1/npdes/permits/generic/sludgeguidance.pdf>.

less than 290	1/ year
290 to less than 1500	1 /quarter
1,500 to less than 15,000	6 /year
15,000 +	1 /month

Sampling of sewage sludge shall use the procedures detailed in 40 CFR 503.8.

7. Under 40 CFR § 503.9(r), the permittee is a "person who prepares sewage sludge" because it "is...the person who generates sewage sludge during the treatment of domestic sewage in a treatment works...." If the permittee contracts with *another* "person who prepares sewage sludge" under 40 CFR § 503.9(r) – i.e., with "a person who derives a material from sewage sludge" – for use or disposal of the sludge, then compliance with Part 503 requirements is the responsibility of the contractor engaged for that purpose. If the permittee does not engage a "person who prepares sewage sludge," as defined in 40 CFR § 503.9(r), for use or disposal, then the permittee remains responsible to ensure that the applicable requirements in Part 503 are met. 40 CFR § 503.7. If the ultimate use or disposal method is land application, the permittee is responsible for providing the person receiving the sludge with notice and necessary information to comply with the requirements of 40 CFR Part 503 Subpart B.
8. The permittee shall submit an annual report containing the information specified in the 40 CFR part 503 requirements (§503.18 (land application), §503.28 (surface disposal), or §503.48 (incineration) by February 19 (*see also* "EPA Region 1 – NPDES Permit Sludge Compliance Guidance"). Reports shall be submitted to the address contained in the reporting section of the permit. If the permittee engages a contractor or contractors for sludge preparation and ultimate use or disposal, the annual report need contain only the following information:
 - Name and address of contractor(s) responsible for sludge preparation, use or disposal.
 - Quantity of sludge (in dry metric tons) from the POTW that is transferred to the sludge contractor(s), and the method(s) by which the contractor will prepare and use or dispose of the sewage sludge.

G. MONITORING AND REPORTING

1. For a period of one year from the effective date of the permit, the permittee may either submit monitoring data and other reports to EPA in hard copy form or report electronically using NetDMR, a web-based tool that allows permittees to electronically submit discharge monitoring reports (DMRs) and other required reports via a secure internet connection. Beginning no later than one year after the effective date of the permit, the permittee shall begin reporting using NetDMR, unless the facility is able to demonstrate a reasonable basis that precludes the use of NetDMR for submitting DMRs and reports. Specific requirements regarding submittal of data and reports in hard copy form and for submittal using NetDMR
 - a. Submittal of Reports using NetDMR

NetDMR is accessed from <http://www.epa.gov/netdmr> . Within one year of the effective date of this permit, the permittee shall begin submitting DMRs and reports required under this permit electronically to EPA using NetDMR, unless the facility is able to demonstrate a reasonable basis, such as technical or administrative

infeasibility, that precludes the use of NetDMR for submitting DMRs and reports ("opt-out request").

DMRs shall be submitted electronically to EPA no later than the 15th day of the month following the completed reporting period. All reports required under the permit shall be submitted to EPA, including the MassDEP Monthly Operations and Maintenance Report, as an electronic attachment to the DMR. Once a permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of DMRs or other reports to EPA and will no longer be required to submit hard copies of DMRs to MassDEP. However, permittees shall continue to send hard copies of reports other than DMRs (including Monthly Operation and Maintenance Reports) to MassDEP until further notice from MassDEP.

b. Submittal of NetDMR Opt-Out Requests

Opt-out requests must be submitted in writing to EPA for written approval at least sixty (60) days prior to the date a facility would be required under this permit to begin using NetDMR. This demonstration shall be valid for twelve (12) months from the date of EPA approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to EPA unless the permittee submits a renewed opt-out request and such request is approved by EPA. All opt-out requests should be sent to the following addresses:

Attn: NetDMR Coordinator
U.S. Environmental Protection Agency, Water Technical Unit
5 Post Office Square, Suite 100 (OES04-4)
Boston, MA 02109-3912

And

Massachusetts Department of Environmental Protection
Surface Water Discharge Permit Program
627 Main Street, 2nd Floor
Worcester, Massachusetts 01608

c. Submittal of Reports in Hard Copy Form

Monitoring results shall be summarized for each calendar month and reported on a separate hard copy Discharge Monitoring Report Form(s) (DMRs) postmarked no later than the 15th day of the month following the completed reporting period. All reports required under this permit, including MassDEP Monthly Operation and Maintenance Reports, shall be submitted as an attachment to the DMRs. Signed and dated originals of the DMRs, and all other reports or notifications required herein or in Part II shall be submitted to the Director at the following address:

U.S. Environmental Protection Agency
Water Technical Unit (OES04-SMR)
5 Post Office Square - Suite 100
Boston, Massachusetts 02109-3912

Duplicate signed copies of all reports or notifications required above shall be submitted to the State at the following addresses:

MassDEP – Northeast Region
Bureau of Resource Protection (Municipal)
205B Lowell Street
Wilmington, MA 01887

Copies of toxicity test reports only to:

Massachusetts Department of Environmental Protection
Surface Water Discharge Permit Program
627 Main Street, 2nd Floor
Worcester, Massachusetts 01608

Any verbal reports, if required in Parts I and/or II of this permit shall be made to both EPA – New England and to MassDEP.

Industrial Pretreatment Program Reports should be sent by the permittee to:

EPA New England
Attn: Justin Pimpore
5 Post Office Square
Mail Code: OEP06-3
Boston, MA 02109-3912

and

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention
Industrial Wastewater Program
One Winter Street
Boston, MA 02108

H. STATE PERMIT CONDITIONS

1. This authorization to discharge includes two separate and independent permit authorizations. The two permit authorizations are (i) a federal National Pollutant Discharge Elimination System permit issued by the U.S. Environmental Protection Agency (EPA) pursuant to the Federal Clean Water Act, 33 U.S.C. §§1251 et seq.; and (ii) an identical state surface water discharge permit issued by the Commissioner of the Massachusetts Department of Environmental Protection (MassDEP) pursuant to the Massachusetts Clean Waters Act, M.G.L. c.21, §§ 26-53, and 314 C.M.R. 3.00. All of the requirements contained in the authorization, as well as the standard conditions contained in 314 CMR 3.19, are hereby incorporated by reference into this state surface water discharge permit.
2. This authorization also incorporates the state water quality certification issued by MassDEP under § 401(a) of the Federal Clean Water Act, 40 C.F.R. 124.53, M.G.L. c.21, §27 and 314 CMR 3.07. All of the requirements (if any) contained in the MassDEP's water quality

certification for the permit are hereby incorporated by reference into this state surface water discharge permit as special conditions pursuant to 314 CMR 3.11.

3. Each Agency shall have the independent right to enforce the terms and conditions of this permit. Any modification, suspension or revocation of this permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this permit is declared, invalid, illegal or otherwise issued in violation of State law such permit shall remain in full force and effect under Federal law as an NPDES permit issued by the U.S. Environmental Protection Agency. In the event this permit is declared invalid, illegal or otherwise issued in violation of Federal law, this permit shall remain in full force and effect under State law as a permit issued by the Commonwealth of Massachusetts.

INDUSTRY LIST

NEWBURYPORT PRETREATMENT PROGRAM
INDUSTRIAL LIST
2020

Micrometal Technologies (cat.), 5 New Pasture Rd.
Electronic Products Inc. (cat.), 85 Parker Street
Strem Chemical (cat.), (2 facilities) main office at 7 Mulliken Way
PCI Synthesis (cat), 9 Opportunity Way
Circle Finishing (cat.) 19 Graf rd.

Dyna Chrome (cat.), 50 Parker Street (unit #5) – No Discharge

Diane's Fine Desserts, 4 Graf Road
Berkshire Mfg. (2 facilities), main office at 116 Parker Street
Alfa Laval (Contherm), 111 Parker Street
Mersen, 374 Merrimac Street
Packaging Specialties (2 facilities), main office 5 Opportunity Way
Label Print Corp., 8 Opportunity Way
Timberline Lumber, 23 Low St.
River Walk Brewing Co., 40 Parker St.
NBPT Brewing Co, 4 New Pasture Rd.
Journeyman Press, 11 Malcolm Hoyt Drive
Rochester Electronics (3 facilities), 16 Malcolm Hoyt Drive
Union Specialties, 3 Malcolm Hoyt Drive
General Linen, 11 Mulliken Way
MTI Milliren Tech., 2 New Pasture Road

Advanced Urethane Technologies, 122 Parker Street
Comdec Incorporated, 25 Hale Street
Arwood Machine, 95 Parker Street
AW Airflow, 52 Parker Street
Innovative Tech., 2 New Pasture Road
Hero Coatings, 13 Malcolm Hoyt Drive
Bixby International Corp., 1 Prebble Road
Ashby Cross, 28 Parker Street
Thomas Machine, 7 New Pasture Road
Harrington Moore, 65 Parker Street
East Coast Welding, 104 Parker Street
Mark Richey Wood Working, 40 Parker Street

Industrial list Continued

Maximum Products, 6 Opportunity Way
Hawtan Leathers, 4 Perkins Way
ITW Foils, 5 Malcolm Hoyt Drive
Varien Semiconductor, 4 Stanley Tucker Drive
Crystal Engineering Company, 2 Stanley Tucker Drive
Zampell Companies, 9 Stanley Tucker Drive
Screenco Incorporated, 8 Opportunity Way
Kleenline, 7 Opportunity Way
Blumberg Company, 75 Parker Street
Bradford and Bigelow, 3 Perkins Way
Talon Engineering, 4 Perkins Way
DA/Pro Rubber, 15 Malcolm Hoyt Drive
Commonwealth Canvas, 5 Perkins Way (unit #5)
GMI, 504 Merrimac St.

CATEGORICAL UPDATE

**CITY OF NEWBURYPORT
PRETREATMENT PROGRAM
CATEGORICAL AND/OR SIU'S
UPDATE
2020**

Electronic Products, Inc. Contact – Christopher Mosher, President 978-462-8101

Address – 85 Parker Street

Categorical / Industrial Classification: CFR 40-433 Metal finishing SIC: 3471

Permit #300 Effective 11/16/2020 Expires 11/15/2023

Inspection Date – 11-09-2020

POTW Sampling Dates, 1/14/20, 6/10/20, 7/15/20, 8/11/20, 9/16/20, 10/14/20, 11/10/20, 12/15/20. Note: Business renovated and had 0 Discharge for FEB and MAR. Due to Covid, sampling was not conducted in Apr. / May.

Yearly Cyanide: not conducted Yearly TTO: Not Conducted (Christmas ,plant shut down)

Self-monitoring – 2 SMR's and 08 other sampling periods

Out of Compliance – 0 Nov's – 0 Fines – 0

Slug Control on file since 1/2/07

Micrometal Technologies

Contact – James Haller, Facilities Manager/ Chief Engineer

Phone: 978-462-3600

Address – 5 New Pasture Rd.

Categorical / Industrial Classification: CFR 40- 433 Metal Finishing SIC: 3471

Permit # 297 Effective 11/19/20 Expires 11/18/2023

Inspection 11/17/2020

POTW Sampling Dates – 1/14/20, 2/11/20, 3/10/20, 6/10/20, 7/15/20, 8/11/20, 9/16/20, 10/14/20, 11/10/20 Note: No sampling Apr/May(Covid) Yearly Cyanide: not conducted
Yearly TTO: 12/28/20

Out of Compliance 0 Nov's – 0 Fines – 0

Slug Control on file since 7/11/07

Self-monitoring – 2 SMR's and 09 other sampling periods

PCI Synthesis, Inc. Contact – Bill Anderson, EHS Manager 978-462-5555

Address – 9 Opportunity Way

Categorical Industrial Classification: CFR 40-414 OCPSF

Permit #299 Effective 12/31/2020 Expires 12/30/2023

Inspection Date – 12/28/2020

POTW Sampling Dates – 1/14/20, 2/11/20, 3/10/20, 6/10/20, 7/15/20, 8/11/20,

9/16/20, 10/14/20, 11/10/20, 12/15/20. No Apr. / May samples (Covid)

Yearly Cyanide: Not Required Yearly 625: (March) not done due to Covid

Self-monitoring – 2 SMR's and 10 other sampling periods

Out of Compliance – 0 Nov's – 0 (Nov. and Dec.) Fines – 0

Slug Control on file since 1/25/07

Strem Chemical Contact – R.J. Wolcik , EH & S , Facilities Manager 978-499-1600

Address – 6 and 7 Mulliken Way

Categorical Industry – CFR 40 – 414 OCPSF

Permit #296 For # 7 Effective 11/24/20 Expires 11/23/2023

Permit #295 For # 6 Effective 11/24/20 Expires 11/23/2023

Inspection Date: For both #6 and #7 10/19/2020

POTW Sampling Dates – 1/14/20, 2/11/20, 3/10/20, 6/10/20, 7/15/20, 8/11/20, 9/16/20
10/14/20, 11/10/20, 12/15/20 (#6 only)

Yearly Cyanide : not required Yearly 625: March (not done due to Covid)

Self-monitoring – 2 SMR's with 10 other sampling periods for #6 and 9 samplings for # 7.

Out of Compliance – 1 (# 7 only) possible sample contamination, retested & in compliance
Nov's – 0 Fines – 0

Slug Control on file since 12/29/08

Circle Finishing Inc.

Contact: Rodney L'italien 978-462-7171

Address: 19 Graf Rd.

Categorical Industrial classification: CFR 40-433 Metal Finishing

Permit # 294 Effective 10/08/20 Expires 10/07/2023

Inspection Date: 5/6/19

POTW Sampling Dates: 1/14/20, 2/11/20, 3/10/20, 6/10/20, 7/15/20, 8/11/20,

9/16/20, 10/14/20, 11/10/20. Yearly Cyanide: Not Conducted Yearly TTO: 12/28/20

Self Monitoring: 2 SMR's and 9 other sampling periods.

Out of Compliance: 0 NOV's: 0 Fines: 0

SLUDGE QUALITY

Newburyport Sewer Department
Biosolids Analytical Report Resu 2019 & 2020

Parameter	Ceiling Conc. (mg/kg)	Pollutant Conc. (mg/kg)	Mar-19 Sampling (mg/kg)	Jun-19 Sampling (mg/kg)	Sep-19 Sampling (mg/kg)	Dec-19 Sampling (mg/kg)	Mar-20 Sampling (mg/kg)	Jun-20 Sampling (mg/kg)	Sep-20 Sampling (mg/kg)	Dec-20 Sampling (mg/kg)
Arsenic	75	41	2.37	3.26	2.4	2.41	2.61	3.9	3.65	3.34
Cadmium	85	39	0.5	0.6	0.5	0.49	0.4	0.8	0.750	0.700
Chromium	3000	1200	15.8	16.5	14	11.5	13.4	18.4	16.5	15.8
Copper	4300	1500	204	297	269	229	217	375	394	403
Lead	840	300	11.7	17.1	15	11.9	9.88	30.6	20.4	19.5
Mercury	57	17	0.46	0.4	0.5	0.33	0.306	0.4	0.56	0.347
Molybdenum	75	15	2.81	3.64	2.7	2.42	3.07	3.62	3.94	4.65
Nickel	420	420	16.5	20.1	12	11.1	13.7	14.5	12.7	13.4
Selenium	100	36	760	2.52	2.3	1.55	1.9	3.56	3.46	2.83
Zinc	7500	2800	1530	390	430	253	341	533	639	482
% solids	NR	NR	24.70%	21.5	28	28.7	22.4	20.3	23.3	25.1
Cobalt	NR	NR	4.3	4.5	4.2	4.1	3.1	3.1	2.5	3.1
Silver	NR	NR	2.75	2.35	3	1.86	1.67	2.68	3.03	2.6
Cyanide	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
pH	NR	NR	8.88	8.78	9.0	8.06	NR	8.4	8.36	6.61
Barium	NR	NR	145	138	130	97.3	114	218	142	141
Boron	NR	NR	29.7	29.2	38.5	37.2	30.7	37.6	41.3	34.8
Sodium	NR	NR	2.13	1050	1020	743	947	704	701	594
Sulfate	NR	NR	402	540	ND	ND	ND	ND	1400	ND
Calcium	NR	NR	14600	16100	17200	14800	15800	21500	18600	17400
Chlorides	NR	NR	690	790	420	420	200	380	330	120
TKN	NR	NR	18000	19000	18000	30000	38000	37000	50000	37000
Ammonia	NR	NR	8800	4100	4300	4600	8300	5500	1800	2800
Nitrate	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
Phosphorus	NR	NR	9700	6100	ND	7300	7500	3100	2400	3630
Potassium	NR	NR	276	1600	964	890	1420	1310	1430	1360
Iron	NR	NR	4690	5660	4440	3920	4580	6830	5890	6880
Magnesium	NR	NR	28000	34000	46700	72200	36200	40100	16900	10100
Pesticides/PCBs										
Salmonella	NR	NR								
Fecal Coliform	NR	NR								
Paint filter test	NR	NR								

ND = Not Detected at or above detection limit.
NR = Not Required
NA = Not Analyzed

MONTHLY
INFLUENT AND EFFLUENT
METALS

Metals parameter	20-Jan Inf.	20-Jan Eff.	20-Jan % Remov	20-Feb Inf.	20-Feb Eff.	20-Feb % Remov	20-Mar Inf.	20-Mar Eff.	20-Mar % Remov	20-Apr Inf.	20-Apr Eff.	20-Apr % Remov
Arsenic	0.0016	0.0014	12.5	0.0025	0.0013	48	0.002	0.0014	93	0.0019	0.0017	11
Cadmium	ND	ND		ND	ND		ND	ND		ND	ND	
Chromium	0.0022	ND	100	0.0067	ND	100	0.002	ND	100	ND	ND	
Cobalt	0.003	ND	100	ND	ND		ND	ND		ND	ND	
Copper	0.058	0.015	74	0.13	0.021	84	0.072	0.013	82	0.04	0.012	97
Lead	0.0056	0.0003	95	0.011	0.0003	97	0.0028	0.0003	89	0.0018	ND	100
Mercury	0.018	ND	100	0.16	ND	100	ND	ND		0.029	ND	100
Nickel	0.016	0.0036	78	0.016	0.0032	80	0.0051	0.0047	8	0.0029	0.0026	10
Silver	0.0007	ND	100	0.0026	ND	100	ND	ND		0.0004	ND	100
Zinc	0.11	0.058	47	0.28	0.056	80	0.34	0.12	65	0.097	0.051	47
Cyn Total	ND	ND		ND	ND		ND	ND		0.012	ND	100
Chrom Hex	ND	ND		ND	ND		ND	ND		ND	ND	
Nitrogen A		0.54			0.88			2.44			0.8	
Nitrite/trate		22079			19.24			22.63			26.04	
Nitrogen TK		0.964			1.27			2.36			ND	

Metals parameter	20-May Inf.	20-May Eff.	20-May % Remov	20-Jun Inf.	20-Jun Eff.	20-Jun % Remov	20-Jul Inf.	20-Jul Eff.	20-Jul % Remov	20-Aug Inf.	20-Aug Eff.	20-Aug % Remov
Arsenic	ND	ND		0.0016	0.0016	0	0.0021	0.0021	0	0.0016	0.0015	6
Cadmium	ND	ND		ND	ND		ND	ND		ND	ND	
Chromium	ND	ND		0.0014	ND	100	0.0011	ND	100	0.0015	ND	100
Cobalt	ND	ND		ND	ND		ND	ND		ND	ND	
Copper	0.043	0.017	60	0.057	0.018	68	0.072	0.024	67	0.053	0.014	74
Lead	0.0023	ND	100	0.0022	ND	100	0.0028	0.0004	86	0.0033	ND	100
Mercury	0.031	ND	100	0.022	ND	100	0.032	ND	100	0.042	ND	100
Nickel	0.0036	ND	100	0.0035	0.0027	23	0.005	0.0027	46	0.0045	0.0039	13
Silver	ND	ND		0.0003	ND	100	0.0005	ND	100	0.0004	ND	100
Zinc	0.098	0.049	50	0.12	0.069	43	0.12	0.073	39	0.19	0.071	63
Cyn total	ND	ND		ND	ND		ND	ND		ND	ND	
Chrome Hex	ND	ND		ND	ND		ND	ND		ND	ND	
Nitrogen A		7.11			10.4			0.56			1.87	
Nitrite/trate		14.34			15.9			26.81			22.79	
Nitrogen TK		8.11			8.5			0.61			3.4	

Metals parameter	20 Sep. Inf.	20 Sep. Eff.	20 Sep. % Remov	20 Oct. Inf.	20 Oct. Eff.	20 Oct. % remov	20 Nov. Inf.	20 Nov. Eff.	20 Nov. %Remov	20 Dec. Inf.	20 Dec. Eff.	20 Dec. % Remov
Arsenic	0.0021	0.0015	29	0.0022	0.0014	37	0.0021	0.0016	24	0.0021	0.002	5
Cadmium	ND	ND		ND	ND		ND	ND		ND	ND	
Chromium	0.0019	ND	100	0.0024	ND	100	0.0018	ND	100	0.0014	ND	100
Cobalt	ND	ND		ND	ND		ND	ND		ND	ND	
Copper	0.073	0.018	75	0.1	0.016	84	0.067	0.02	70	0.053	0.01	81
Lead	0.003	ND	100	0.0035	ND	100	0.0046	0.0003	93	0.0029	ND	100
Mercury	0.029	ND	100	0.041	ND	100	0.025	ND	100	0.023	ND	100
Nickel	0.0048	0.004	17	0.005	0.0034	32	0.0039	0.0027	31	0.0042	0.0028	33
Silver	0.0003	ND	100	0.0007	ND	100	0.0003	ND	100	0.0004	ND	100
Zinc	0.17	0.073	57	0.19	0.066	65	0.12	0.059	51	0.11	0.043	61
Cyn Total	ND	ND		ND	ND		ND	ND		ND	ND	
Chrome Hex	ND	ND		ND	ND		ND	ND		ND	ND	
Nitrogen A		1.78			0.57			1.84			0.26	
Nitrite/trate		31.24			32.64			28.79			18.9	
Nitrogen TK		2.2			0.616			1.06			0.484	

POTW

MONTHLY AVERAGE FLOWS

% REMOVAL BOD

% REMOVAL TSS

TOTAL FLOWS FOR THE YEAR

YEAR
2020

Month	Flow Mgd	Eff Bod	Eff Bod % Rem	Eff Tss	Eff Tss % Rem
Jan	1.615	8	97	5	97
Feb	1.559	10	96	6	97
Mar	1.624	14	93	8	94
Apr	1.879	18	88	9	93
May	1.678	19	89	8	95
Jun	1.510	11	95	8	96
Jul	1.478	8	96	10	95
Aug	1.326	7	97	7	96
Sep	1.234	9	96	10	95
Oct	1.350	8	97	10	95
Nov	1.424	6	98	5	97
Dec	1.704	7	96	7	96

Monthly Average MGD: 1.532

Total Flow for the Year: 559,180,000

[illegible]